

Application No.: 09/308,461

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Docket No.: 449122036900

AMENDMENTS TO THE CLAIMS

1-7 (canceled)

8. (currently amended) A method for statistical multiplexing of ATM links, comprising:
providing a plurality of virtual connections which transmit ATM cells via a connecting line;
and

assigning an incoming connection ~~connections~~ to a first or a second class depending on a result of a predetermined analysis, wherein the first class is subdivided into sub-classes, wherein the analysis is performed, in sequence, on each of the sub-classes until the incoming connection is assigned to a sub-class or all the sub-classes have been analyzed.

9. (previously presented) The method as claimed in claim 8, wherein at least one transmission parameter of the connecting line or the connection are used to determine the result of the analysis.

10. (currently amended) The method as claimed in claim 8, wherein at least one of the transmission ~~parameters~~ parameter and the analysis results are stored in a network node and are updated when an ATM link is set up and/or cleared.

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